Under the Paperwork Red

Patent and Trad erwork Red .ct of 1995, no persons are required to respond to a collection of info ed for use through 10/31/2002. OMB 0651-0032 ffice: U.S. DEPARTMENT OF COMMERCE unless it displays a valid OMB control number.

Attorney Docket No. 1488.1280006/EKS/EJH

First Inventor Ying-Fei Wei

Title Tumor Necrosis Factor Receptor 5

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))	Express Mail Label No.								
APPLICATION ELEMENTS - See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231								
 Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 	 7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. ☒ Computer Readable Form (CRF) 								
Specification [Total Pages 73] (preferred arrangement set forth below) - Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure Drawing(s) (35 U.S.C. 113) [Total Sheets 23]	b. Specification Sequence Listing on: i.								
Signor Drawing(s) (33 U.S.C. 113) [Total Pages 22] Signor and Drawing(s) (33 U.S.C. 113) [Total Pages 22] Signor and Drawing(s) (35 U.S.C. 113) [Total Pages 22] Signor and Drawing(s) (35 U.S.C. 113) [Total Pages 22] Signor and Drawing(s) (35 U.S.C. 113) [Total Pages 22]	11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS								
b. Copy from a prior application (37 CFR 1.63(d)) for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S)	Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. True (2) Partire Receipt Protected (MPER 503)								
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).	 14. X Two (2) Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17 X Other: Authorization under 37 C.F.R. § 1.136(a)(3) 								
Application Data Sheet. See 37 CFR 1.76.									
	17. Other: Authorization under 37 C.F.R. § 1.136(a)(3) Other: The name of the assignee is: Human Genome Sciences, Inc.								
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-Part (CIP) of prior application No: 09/006,353 Prior application information: Examiner Eileen B. O'Hara Group/Art Unit: 1646 For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only relied upon when a portion has been inadvertently omitted from the submitted application parts.									
19. CORRESPO	NDENCE ADDRESS								
Customer Number or Bar Code Label Customer No. 28730 (Insert Customer No. 27/1/14	or Correspondence address below Chibar code;label;here)								
NAME STERNE, KESSLER, GOLDSTEIN & FOX PLOC/ 3 U Attorneys at Law PATENT TRADEMARK OFFICE									
ADDRESS	ZIRCODE								
COUNTRY STATE TELEPHONE	ZIP CODE FAX								
NAME (Print/Type) Elizabeth J. Haanes, Ph.D.	Registration No. (Attorney/Agent) 42,613								



FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$)2,362.00

Complete if Known							
Application Number	To be assigned						
Filing Date	Herewith						
First Named Inventor	Ying-Fei Wei						
Examiner Name	To be assigned						
Group Art Unit	To be assigned						
Attorney Docket No.	1488.1280006/EKS/EJH .						

MET	FEE CALCULATION (continued)									
1.	nmissioner is hereby authorized fees and credit any overpaymer	d to charge nt to:	3. ADDI Large			Entity				
Deposit Account Number	19-0036		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee D	escription	Fee paid	
Deposit Account Name	Sterne, Kessler, Goldstein & Fo	X P.L.L.C.	105	130	0 205	65	Surcharge - late filing f	ee or oath		
Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17		127	50	227	25	Surcharge - late provisiona	I filing fee or cover sheet	:		
		139	130	139	130	Non-English specifi				
Applicant claims small entity status		147	2,520	0 147	2,520	For filing a request fo	ation			
See 37 CFR 1.27			112	920*	112	920*	Requesting publication of action	r		
2. Payment End				1,840*	113	1,840*	Requesting publication of	ction		
Check Credit card Money Order Other* *Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.			115	110	215	55	Extension for reply wi			
} ±1 911	FEE CALCULATION		116	390	216	195	Extension for reply wi	thin second month		
1. BÁSIC FILING	FEE		117	890	217	445	Extension for reply wi	thin third month		
Large Entity Sma	all Entity		118	1,390	218	695	Extension for reply wi	thin fourth month		
Fee Fee Fee Code (\$) Co	e Fee Fee Description Fe de (\$)	ee Paid	128	1,890	228	945	Extension for reply wi	thin fifth month		
10 710 201	355 Utility filing fee 7	10.00	119	310	219	155	Notice of Appeal			
106 320 206	3 160 Design filing fee _		120	310	220	155	Filing a brief in suppo			
107 490 207	245 Plant filing fee _		121	270	221	135	Request for oral hear			
108 - 710 208	355 Reissue filing fee _		138	1,510	138	1,510	Petition to institute a	ng g		
114 150 214	75 Provisional filing fee _		140	110	240	55	Petition to revive - un	avoidable		
			141	1,240	241	620	Petition to revive - un			
SUBTOTAL (1) (\$) 710.00			142	1,240	242	620	Utility issue fee (or reissue)			
			143	440	243	220	Design issue fee Plant issue fee			
			144	600	244	300				
			122	130	122	130	Petitions to the Comm	nissioner		
2. EXTRA CLAIM	FEES Fee from Extra below	Fee Paid	123	130	123	130	Petitions related to pr	* *		
Total Claims 94	- 20** = 74 X 18 =	= 1,332.00	126	180	126	180	Submission of Inform	ation Disclosure Str	nt	
Indep. Claims 7		= 320.00	581	40	481	40	Recording each patent assignment per property (times number of properties)			
Multiple Dependen	` <u></u>	=	146	710			Filing a submission after final rejection (37 CFR 1.129(a))			
Large Entity Sma	Fee Fee Description		149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))			
Code (\$) Cod 103 18 203	e (\$) 9 Claims in excess of 20		179	710	279	355	Request for Continued Examination (RCE)			
102 80 202 104 270 204	 40 Independent claims in ex 135 Multiple dependent claim 	cess of 3	169	900	169	900	Request for expedited examination of a design application			
108 80 209	40 **Reissue independent ct	aims over original	Other fee	(specify)	:					
110 18 210	patent 9 **Reissue claims in exces original patent	ss of 20 and over	Other fee	(specify)	:					
SUBTOTAL (2) (\$) 1,652.00 *Reduced by B					Filing Fee	Paid			<u> </u>	
** or number previously paid, if greater, For Reissues, see above SUBTOTAL (3) (\$)										
SUBMITTED BY								Complete (if app	licable)	
Name (Print/Type) Elizabeth J. Haanes, Ph.D.			F	Registration	No.	42,613 Telephone 202-371-2600		202-371-2600		
Signature Shelist J. Haans Date aml 5, 2001									april 5, 2001	
WARNING: Information on this form may become public. Credit card information should not										



STELLE, KESSLER, GOLDSTEIN & FOX P.L.L.C

ATTORNEYS AT LAW

1100 NEW YORK AVENUE, N.W. . WASHINGTON, D.C. 20005-3934

PHONE: (202) 371-2600 . FACSIMILE: (202) 371-2540 . www.skgf.com

ROBERT GREENE STERNE EDWARD J. KESSLER JORGE A. GOLDSTEIN SAMUEL L. FOX*** DAVID K.S. CORNWELL ROBERT W. ESMOND TRACY-GENE G. DURKIN MICHELE A. CIMBALA MICHAEL B. RAY ROBERT E. SOKOHL ERIC K. STEFFE MICHAEL O. LEE STEVEN R. LUDWIG JOHN M. COVERT*
LINDA E. ALCORN
ROBERT C. MILLONIG
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TIMOTHY J. SHEA, JR.
DONALD R. MCPHAIL
PATRICK E. GARRETT
STEPHEN G. WHITESIDE
JEFFREY T. HELVEY*
HEIDI L. KRAUS
JEFFREY R. KURIN
RAYMOND MILLIEN

PATRICK D. O'BRIEN
LAWRENCE B. BUGAISKY
CRYSTAL D. SAYLES
EDWARD W. YEE
ALBERT L. FERRO*
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KENDRICK P. PATTERSON
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W. RUSSELL SWINDELL
THOMAS C. FIALA
LONNY L. MULLER*
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VIRGIL L. BEASTON*
RYAN J. STAMPER*

KAREN R. MARKOWICZ**
SUZANNE E. ZISKA**
ANDREA J. KAMAGE**
NANCY J. LEITH**
ELIZABETH J. HAANES**
MARK P. TERRY**

*BAR OTHER THAN D.C.

**REGISTERED PATENT AGENT

***SENIOR COUNSEL

April 5, 2001

WRITER'S DIRECT NUMBER: (202) 218-7834 INTERNET ADDRESS: BHAANES@SKGF.COM

Commissioner for Patents Washington, D.C. 20231

Box Patent Application

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

(Divisional of Appl. No. 09/006,353; Filed: January 13, 1998)

Appl. No. To be assigned; Filed: Herewith For: Tumor Necrosis Factor Receptor 5

Inventors:

Wei et al.

Our Ref:

1488.1280006/EKS/EJH

Sir:

M

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ф.,

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H

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- 2. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (in duplicate);
- 3. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 4. Application Data Sheet Under 37 C.F.R. § 1.176
- 5. U.S. Utility Patent Application entitled:

TUMOR NECROSIS FACTOR RECEPTOR 5

Commissioner for Patents April 5, 2001 Page 2

and naming as inventors:

Ying-Fei WEI Reiner GENTZ Jian NI Steven M. RUBEN

the application consisting of:

- a. A specification containing:
 - i. 67 pages of description prior to the claims;
 - ii. <u>5</u> pages of claims (<u>22</u> claims);
 - iii. a one (1) page abstract;
- b. <u>23</u> sheets of drawings: (Figures 1A, 1B, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 2K, 2L, 2M, 2N, 2O, 2P, 3, 4, 5A, 5B-5C, and 6; and
- c. <u>36</u> pages of a paper copy of a sequence listing;
- d. A copy of the executed Declaration and Power of Attorney, as originally filed in U.S. Appl. No. <u>09/006,353</u>;
- e. A copy of an assignment to Human Genome Sciences, Inc., as recorded at reel: 9418; frame: 0772;
- 6. A Preliminary Amendment;
- 7. A computer readable copy of the sequence listing;
- 8. Copies of Associate Powers of Attorney filed on August 12, 1999 and April 25, 2000 along with the U.S. Patent and Trademark stamped returned postcard;
- 9. A copy of a Statement Concerning the Deposited cDNA Clone, as originally filed in U.S. Appl. No. 09/006,353;
- 10. A copy of the specification and drawings as originally filed in U.S. Appl. No. 09/006,353; which is incorporated herein by reference;

Commissioner for Patents April 5, 2001 Page 3

- 11. Two (2) return postcards; and
- 12. Our check No. **30849** for \$ 2,362.00 to cover:

\$ 710.00 Filing fee for patent application;

 $\frac{1,652.00}{1}$ Fee for excess claims.

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the sequence listing and the computer readable copy of the sequence listing submitted herewith in the above application are the same.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Elizabeth J. Haanes, Ph.D.

Agent for Applicants Registration No. 42,613

EJH/pcd Encls.

P:\USERS\BHAANES\1488\128-6\DivAppl._trnltr

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Wei et al.

Appl. No.:

09/006,353

Art Unit: 1634

Filed: January 13, 1998

Examiner: O'Hara, E.

For:

Tumor Necrosis Factor Receptor 5

Docket No.: 1488.1280002/EKS/EJH

Statement Concerning the Deposited cDNA Clone

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

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ru:

The undersigned attorney of record hereby states:

- A plasmid containing human Tumor Necrosis Factor Receptor 5 cDNA was 1. deposited under the terms of the Budapest Treaty on November 20, 1996, at the American Type Culture Collection (ATCC), Patent Depository, 10801 University Boulevard, Manassas, Virginia 20110-2209 (current address), and given accession number 97798, as evidenced by the copy of the ATCC Deposit Receipt attached hereto.
- Assurance is hereby given that: (1) the deposit was made under terms of the 2. Budapest Treaty; (2) except for the limitations allowed by 37 C.F.R. § 1.808(b), all restrictions on the availability to the public of the deposit will be irrevocably removed upon the granting of a patent from the captioned application; (3) the deposit has been made under conditions such that access to the material will be available during the pendency of the captioned patent application to one determined by the Commissioner; and (4) the deposit will be maintained with the care necessary to keep it viable and uncontaminated for a period of at least five years after the most recent request for the furnishing of a sample of the deposit, and in any case, for a period of at least thirty years after the date of deposit or for the enforceable life of the patent, whichever period is longer.

Respectfully submitted

APRIL 17, 2000

Jonathan L. Klein

(Reg. No. 41,119)

Attorney for Applicants

Human Genome Sciences, Inc.

9410 Key-West Avenue Rockville, MD 20850

Telephone: (301) 251-6015

Due Date:

Wei et al.

Application No.:

Applicant:

09/006,353

Filed:

January 13, 1998

Tumor Necrosis Factor Receptor 5

1646

O'Hara, E.

Docket: 1488.1280002

April 26, 2000

Atty: EKS/EJH

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

PTO Transmittal Letter (in duplicate);

Fee Transmittal Form (PTO/SB/17) (in duplicate);

Amendment and Reply Under 37 C.F.R. § 1.111;

An original Associate Power of Attorney executed by Attorney of Record Kenley K. Hoover;
A Statement Concerning the Deposited cDNA Clone executed by attorney of record Jonathan L. Klein, with attached ATCC Deposit Receipt; A Declaration of Ying-Fei Wei, Jian Ni, Reiner Gentz, and Steven Ruben Under 37 C.F.R. § 1.131 along with attached Exhibit A (in two

A Substitute Specification submitted Under 37 C.F.R. § 1.125(b); A marked up copy of the Substitute Specification;

Substitute Figures labeled 1A, 1B, 2A, 2B, 2C, and 2D;

Copies of the pages of Figures 1 and 2 as originally filed, with the proposed changes shown in red;

A copy of the abstract of Chou and Roizman, J. Virol. 57:629-637 (1986);
 A Petition of Extension of Time (in duplicate); and

13. Our check no. 27356 in the amount of \$1,584.00 to cover the fee:

\$714.00 Extra claims; and

OBCCELE LOROSOL

\$870.00 For Extension of Time.

Please Date Stamp And Return To Our Courier

Due Date: N/A

Applicant: WEI et al. Art Unit: 1646

Examiner: Fitzgerald, D.

Application No.: 09/006,353 Docket: 1488.1280002

Filed: January 13, 1998 Atty: EKS/EJH

For: Tumor Necrosis Factor Receptor 5

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

1. Transmittal Letter (in duplicate);

2. Change of Correspondence Address (Form PTO/SB/122); and

3. Associate Power of Attorney.



Box:

Please Date Stamp And Return To Our Courier

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Wei et al.

Appl. No. To be assigned

(Divisional of Appl. No. 09/006,353; Filed: January 13,

1998)

Filed: Herewith

For:

Tumor Necrosis Factor Receptor 5

Confirmation No. To be assigned

Art Unit: To be assigned

Examiner: To be assigned

Atty. Docket:1488.1280006/EKS/EJH

Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Elizabeth J. Haanes, Ph.D.

Agent for Applicants

Registration No. 42,613

Date: <u>april 5, 2001</u>

1100 New York Avenue, N.W.

Suite 600

Washington, D.C. 20005-3934

(202) 371-2600